

CLAIMS

What is claimed is:

1 1. A detachable grouser assembly for use with vehicles having
2 continuous flexible tracks, the grouser assembly comprising the following:
3 a traction grouser adapted and constructed to fit onto a track of the
4 vehicle; and
5 a selectively releasable mechanical attachment assembly connecting the
6 traction grouser to the track of the vehicle through a hole in the
7 track.

1 2. A grouser assembly in accordance with claim 1, wherein the
2 flexible track includes a plurality of clean-out holes, and the selectively releasable
3 mechanical attachment assembly is secured to the flexible track by insertion of
4 a part of the grouser assembly through the clean-out holes.

1 3. A grouser assembly in accordance with claim 2, wherein the
2 selectively releasable mechanical attachment assembly comprises the following:
3 a mounting plate; and
4 securing members extending through the clean-out holes and releasably
5 connecting the mounting plate to the traction grouser.

1 4. A grouser assembly in accordance with claim 3, wherein the
2 securing members comprise threaded bolt assemblies.

1 5. A grouser assembly in accordance with claim 3, wherein the
2 traction member comprises raised traction elements.

1 6. A grouser assembly in accordance with claim 5, wherein the
2 raised traction elements are configured in a chevron arrangement.

1 7. A grouser assembly in accordance with claim 5, wherein the
2 raised traction elements comprises a cork member.

1 8. A grouser assembly in accordance with claim 7, further
2 comprising a traction-enhancing feature on the cork element.

1 9. A grouser assembly in accordance with claim 8, wherein
2 traction-enhancing feature comprises spiral grooves.

1 10. A reusable, detachable grouser assembly for use with
2 vehicles having continuous flexible tracks, the grouser assembly comprising the
3 following:

4 a traction grouser adapted and constructed to fit onto a first side of a
5 track of the vehicle, the traction grouser having a contour that
6 enhances the ability of the track section to grip into surfaces
7 traversed by the tracked vehicle; and
8 a selectively releasable mechanical attachment assembly connecting the
9 traction grouser to the track of the vehicle through a hole in the
10 track, the attachment assembly including a mounting plate
11 mounted on a second side of the track of the vehicle.

1 11. A grouser assembly in accordance with claim 1, wherein the
2 flexible track includes a plurality of clean-out holes, and the selectively releasable
3 mechanical attachment assembly is secured to the flexible track by insertion of
4 a part of the grouser assembly through the clean-out hole.

1 12. A grouser assembly in accordance with claim 11, wherein
2 the flexible track includes a plurality of clean-out holes, and the selectively
3 releasable mechanical attachment assembly is secured to the flexible track by
4 insertion of a part of the attachment assembly through the clean-out hole.

1 13. A grouser assembly in accordance with claim 11, wherein
2 the flexible track includes a plurality of clean-out holes, and the selectively
3 releasable mechanical attachment assembly is secured to the flexible track by
4 insertion of a part of the traction grouser through the clean-out holes.

1 14. A grouser assembly in accordance with claim 11, wherein
2 the selectively releasable mechanical attachment assembly comprises securing
3 members extending through the clean-out holes and releasably connecting the
4 mounting plate to the traction grouser.

1 15. A grouser assembly in accordance with claim 14, wherein
2 the securing members comprise threaded bolt assemblies.

1 16. A grouser assembly in accordance with claim 10, wherein
2 the traction member comprises raised traction elements.

1 17. A grouser assembly in accordance with claim 16, wherein
2 the raised traction elements are configured in a chevron arrangement.

1 18. A grouser assembly in accordance with claim 16, wherein
2 the raised traction elements comprises a cork member.

1 19. A grouser assembly in accordance with claim 18, further
2 comprising a traction-enhancing feature on the cork element.

1 20. A grouser assembly in accordance with claim 19, wherein
2 traction-enhancing feature comprises spiral grooves.